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TITLE: PRODUCTION OF NICKEL COATED MICA
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ABSTRACT:

PURPOSE: To stabilize a plating bath and to obtain a uniform high quality film when nickel coated mica is produced, by using hydrazine hydrate as a reducing agent and carrying out electroless plating at a prescribed temp. with the plating bath kept at a specified pH.

CONSTITUTION: Fine particles of flaky mica are suspended in an aqueous soln. contg. hydrochloric acid and stannous chloride and/or palladium chloride, and the suspension is stirred and filtered to finish the activation pretreatment of the surfaces of the particles. The resulting wet cake is suspended in an aqueous soln. contg. a water soluble nickel salt and a complexing agent, the

suspension is stirred and an NaOH soln. or the like is added to keep the plating bath at $10 \sim 13$ pH. Hydrazine hydrate as a reducing agent is further added, the bath is heated to $40 \sim 60^{\circ}\text{C}$ and electroless plating is carried out. By this method, the danger of explosion due to the generation of hydrogen can be eliminated and stable and uniform films are formed at a low temp.

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